

## IN THE CLAIMS

Please amend the claims as indicated below:

1 - 2. (CANCELLED)

3. (CURRENTLY AMENDED) A gearbox ~~as in claim 1~~ wherein comprising:  
a plurality of gears forming gearsets, each gearset including at least one shaft extending  
from the gearset, wherein the gearsets are sized having ratios varying by degrees of  
separation of a common ratio in a geometric sequence,

wherein the common ratio ~~for~~ is calculated by dividing a number of gearset combinations of forward speeds in the gearbox by a number of gearsets between two shafts, where the number of gearsets between two shafts is two or more,

and the degrees of separation of the common ratio for gearsets between a next pair of shafts is determined by dividing the common ratio from the prior pair of shafts by a number of gearsets between the next pair of shafts until all shaft pairs are calculated, and

further wherein the degrees of separation of the common ratio of gearsets in a last pair of shafts when calculated may have only 1 gearshaft between them.

4 - 21. (CANCELLED)

22. (CURRENTLY AMENDED) A gearbox ~~as in claim 14~~ wherein comprising:  
a plurality of gears forming gearsets, each gearset including at least one shaft extending  
from the gearset, wherein the gearsets are sized having ratios varying by degrees of  
separation of a common ratio in a geometric sequence, wherein

the gearbox includes no more than thirteen gearsets and the gearsets are  
configured to form the gearbox as comprising 24 forward torques;

R is a common ratio in a geometric sequence, the gearbox further comprising:

a first frame member that includes a first gearset unit having gearsets sized to have a common ratio selected from the group consisting of  $R^{12}$ ,  $1/R^8$  and  $1/R^6$ ;

a second frame member that includes a second gearset unit having gearsets sized to have a common ratio selected from the group consisting of  $1/R^4$ ,  $1/R^2$  and  $1/R^3$ ;

Enter Amendment  
TOL 9/1/05